

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/051104

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H02M7/44

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category ^a	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 610 508 A (KAMMILLER NEIL A) 11 March 1997 (1997-03-11) from column 5, line 50 up to column 8, line 30 figures 5,8,11a,12a,12b	1-3
X		4-14
X	US 6 297 617 B1 (AOYAMA TAKASHI) 2 October 2001 (2001-10-02) abstract column 6, line 50 - line 65	4,13,14
A	figure 6	1-3,5-12

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

^a Special categories of cited documents :

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- "P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

Date of mailing of the international search report

2 November 2004

10/11/2004

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 5610508	A 11-03-1997	NONE		
US 6297617	B1 02-10-2001	JP 2001078370 A		23-03-2001